



Product Overview

NZQA6V8A: ESD Protection Diode with Low Clamping Voltage

For complete documentation, see the data sheet

Product Description

This integrated transient voltage suppressor device (TVS) is designed for applications requiring transient overvoltage protection. It is intended for use in sensitive equipment such as computers, printers, business machines, communication systems, medical equipment, and other applications. Its integrated design provides very effective and reliable protection for four separate lines using only one package. These devices are ideal for situations where board space is a premium.

Features

- ESD Protection: IEC61000 and MIL STD 833
- Four separate unidirectional configurations for protection
- Low Leakage Current: $< 1 \mu\text{A}$ @ 3 Volts
- Power Dissipation: 380 mW
- Low Capacitance
- Complies to USB 1.1 Low Speed and High Speed Specifications
- Pb-Free Packages are Available

Applications

- Instrumentation equipment
- Serial and Parallel ports
- Notebooks, Desktops, Servers
- Cellular and Portable equipment

Part Electrical Specifications

Product	Compliance	Status	Interface	Number of Lines	Direction	C Max (pF)	$V_{(BR)}$ Min (V)	V_{RWM} Max (V)	I_R Max (uA)	P_{PK} Max (W)	Package Type
NZQA6V8AXV5T1G	AEC Qualified Pb-free Halide free	Active	General I/O	4	Unidirectional	9.5	6.47	3	1	20	SOT-553
NZQA6V8AXV5T2G	AEC Qualified Pb-free Halide free	Active	General I/O	4	Unidirectional	9.5	6.47	3	1	20	SOT-553
NZQA6V8AXV5T3G	AEC Qualified Pb-free Halide free	Active	General I/O	4	Unidirectional	9.5	6.47	3	1	20	SOT-553

For more information please contact your local sales support at www.onsemi.com

Created on: 7/11/2015